

wherein:

said connector assembly permits said shaving head to exhibit a first movement toward and away from said handle into and out of a rest position; and

said biasing element biases said shaving head into said rest position against said first movement.

2. (Unamended) A razor as in claim 1, wherein said connector assembly further permits a pivoting second movement forward and backward about a pivot axis parallel to said transverse axis into and out of said rest position.

3. (Unamended) A razor as in claim 2, wherein said biasing element biases said head into said rest position against said first movement and said second movement.

4. (Unamended) A razor as in claim 2, wherein said connector assembly includes at least one insertion element and at least one cutout shaped to receive said at least one insertion element, wherein said cutout has dimensions greater than the dimensions of said at least one insertion element to allow said first movement and said second movement.

5. (Unamended) A razor as in claim 4, wherein said at least one insertion element is a pin.

6. (Unamended) A razor as in claim 4, wherein said handle, said insertion element, and said biasing element are a single piece.

7. (Unamended) A razor as in claim 4, further including a neck piece coupled to said handle, wherein said neck piece includes said at least one insertion element.

8. (Unamended) A razor as in claim 7, wherein said neck piece includes said biasing element.

9. (Unamended) A razor as in claim 1, wherein said biasing element is at least one leaf spring.

1 10. (Unamended) A razor as in claim 1, wherein said biasing element is a spring-loaded
2 tongue.

1 11. (Unamended) A razor as in claim 1, wherein during the first movement, when said
2 shaving head is moved out of said rest position, said transverse axis is oblique to said
3 longitudinal axis.

1 12. (Unamended) A razor as in claim 1, wherein during the first movement, when said
2 shaving head is out of said rest position, said transverse axis is perpendicular to said
3 longitudinal axis.

1 13. (Unamended) A razor as in claim 1, wherein when said shaving head is out of said
2 rest position, said transverse axis is perpendicular or oblique to said longitudinal axis
3 depending on the degree and location of at least one force applied to said shaving head.

1 14. (Amended) A razor, comprising:
2 a handle having a first end, a spaced second end, and a longitudinal axis extending
3 between said first and second ends;
4 a shaving head carrying at least one blade with at least one cutting edge and defining a
5 transverse axis parallel to said at least one cutting edge;
6 a connector assembly comprising a head-engaging element on said handle and a
7 handle-engaging element on said shaving head movably coupling said handle to said shaving
8 head; and
9 a biasing element biasing said shaving head into a rest position;
10 wherein said head-engaging element and handle-engaging element move with respect
11 to each other to permit said shaving head to exhibit a first movement toward and away from
12 said handle.

1 15. (Unamended) A razor as in claim 14, wherein:

2 one of said head-engaging element and said handle-engaging element
3 comprises at least one post with a pin extending therefrom and the other comprises a cutout
4 for receiving said at least one pin; and

5 said cutout has dimensions greater than the dimensions of said pin received
6 therein to allow movement of said shaving head toward and away from said handle and
7 pivoting of said shaving head upward and downward about a pivot axis parallel to said
8 transverse axis.

1 16. (Unamended) A razor as in claim 15, wherein said biasing element is at least one
2 leaf spring disposed between said posts such that at least one free end of said at least one leaf
3 spring is adjacent said longitudinal axis and at least one fixed end of said leaf spring is
4 adjacent said posts.

1 17. (Unamended) A razor as in claim 15, wherein said biasing element is at least two
2 leaf springs and said at least one post is disposed between said leaf springs such that said
3 fixed ends of said leaf springs are adjacent said at least one post and said free ends of said
4 leaf springs are spaced outwardly therefrom.

1 18. (Unamended) A razor as in claim 15, wherein said at least one post and pin are
2 formed on said handle and said at least one cutout is formed in said shaving head.

1 19. (Unamended) A razor as in claim 14, wherein said biasing element is at least one
2 leaf spring disposed between said handle and said shaving head and having a free end.

1 20. (Unamended) A razor as in claim 19, wherein said free end of said at least one leaf
2 spring has a cam surface formed thereon.

1 21. (Unamended) A razor as in claim 20, wherein said shaving head further includes a
2 projection extending therefrom, and said cam surface contacts said projection to bias said
3 shaving head into said rest position.

1 22. (Unamended) A razor as in claim 19, wherein said at least one leaf spring includes
2 two leaf springs each having a free end, said free ends of said leaf springs being spaced apart
3 to form a gap therebetween.

1 23. (Unamended) A razor as in claim 19, wherein said at least one leaf spring includes
2 two leaf springs each having a fixed end and a free end, said fixed ends of said leaf springs
3 extending from a member that is connected to said handle such that said leaf springs and said
4 member form a Y-shape.

1 24. (Unamended) A razor as in claim 14, wherein said shaving head is releasably
2 coupled to said handle.

1 25. (Amended) A razor comprising:
2 a handle defining a longitudinal axis;
3 a razor cartridge carrying at least one blade with at least one cutting edge and defining
4 a transverse axis parallel to said at least one cutting edge, said razor cartridge having a
5 longitudinal axis perpendicular to said transverse axis; and
6 a connector assembly provided between said handle and said razor cartridge to
7 removably couple said razor cartridge to said handle;
8 wherein:
9 said connector assembly includes a cartridge-engaging element on said handle and a
10 handle-engaging element on said razor cartridge; and
11 said cartridge-engaging element and said handle-engaging element are configured to
12 permit said razor cartridge simultaneously and independently to pivot about said transverse
13 axis in a pitching movement, to move toward and away from said handle with said transverse
14 axis remaining perpendicular to said longitudinal axis of said handle in a cushioning
15 movement, and to pivot about said razor cartridge longitudinal axis in a rolling movement.

1 26. (Unamended) A razor as in claim 25, wherein said razor cartridge further comprises
2 a bottom surface with a camming surface and wherein said razor further comprises a biasing
3 element contacting said camming surface biasing said razor cartridge into a rest position once
4 a force causing any one of said pitching, cushioning, and rolling movements is removed.

1 27. (Unamended) A razor as in claim 26, wherein said biasing element is spaced from
2 said connector assembly.

1 28. (Unamended) A razor as in claim 26, wherein said biasing element is a spring-loaded
2 tongue.

1 29. (Unamended) A razor as in claim 26, wherein one of said cartridge-engaging
2 element and said handle-engaging element is an insertion element and the other of said
3 cartridge-engaging element and said handle-engaging element is at least one cutout shaped to
4 receive said insertion element.

1 30. (Amended) A razor as in claim 29, wherein said insertion element includes a post
2 and pin extending transversely therefrom shaped for insertion into said cutout.

1 31. (Amended) A razor as in claim 30, wherein:

2 said post and pin include a first post having a first pin and a second post
3 having a second pin;

4 said at least one cutout includes a first cutout for receiving said first pin and a
5 second cutout for receiving said second pin; and

6 said first and second posts are resiliently movable with respect to each other to
7 facilitate insertion into and removal of said first and second pins from said first and second
8 cutouts, respectively.

1 32. (Unamended) A razor as in claim 31, further including at least one button coupled to
2 at least one of said first and second posts to move said at least one of said first and second
3 posts upon movement of said button.

1 33. (Amended) A razor comprising:
2 a handle defining a longitudinal axis;

3 a shaving head carrying at least one blade with at least one cutting edge and defining a
4 transverse axis parallel to said at least one cutting edge and a longitudinal axis perpendicular
5 to said transverse axis; and

6 a connector assembly comprising a head-engaging element and a handle-engaging
7 element movably coupling said shaving handle to said head upon coupling said head-
8 engaging element and said handle-engaging element together;

9 wherein said head-engaging element and said handle-engaging element are:
10 configured for insertion of one into the other to result in coupling of said shaving head
11 to said handle; and

12 movable with respect to each other when coupled together to permit said shaving head
13 simultaneously and independently to pivot about said transverse axis in a pitching movement,
14 to move toward and away from said handle with said transverse axis remaining perpendicular
15 to said longitudinal axis of said handle in a cushioning movement, and to pivot about said
16 shaving head longitudinal axis in a rolling movement.

1 34. (Unamended) A razor as in claim 33, wherein said shaving head further comprises a
2 bottom surface with a camming surface and wherein said razor further comprises a biasing
3 element contacting said camming surface biasing said shaving head into a rest position once a
4 force causing any one of said pitching, cushioning, and rolling movements is removed.

1 35. (Unamended) A razor as in claim 34, wherein said biasing element is spaced from
2 said head-engaging element and said handle-engaging element.

1 36. (Unamended) A razor as in claim 35, wherein said head-engaging element and said
2 handle-engaging element are directly coupled together.

1 37. (Unamended) A razor as in claim 35, wherein one of said head-engaging element
2 and said handle-engaging element is a post with a pin extending therefrom and the other of
3 said head-engaging element and said handle-engaging element is a cutout having dimensions
4 larger than the dimensions of said pin to allow said pitching, cushioning, and rolling
5 movements.

1 38. (Unamended) A method of modifying a razor having a shaving head movably
2 coupled to a handle to increase the degree of freedom of movement between the shaving head
3 and the handle, the shaving head carrying at least one blade with at least one cutting edge and
4 having a transverse axis parallel to the at least one cutting edge and a longitudinal axis
5 perpendicular to the transverse axis, the shaving head being movably coupled to the handle
6 for pivoting about the transverse axis by insertion of an insertion element on one of the
7 handle and shaving head into a hole in the other of the handle and shaving head, said method
8 comprising:

9 increasing the size of the hole to form a cutout to increase the mobility of the
10 insertion element therein to permit cushioning movement of the shaving head toward and
11 away from the handle and rolling movement of the shaving head about the transverse axis
12 thereof in addition to the pivoting movement about the transverse axis.

1 39. (Unamended) A method of modifying a razor as in claim 38, further comprising the
2 step of providing a biasing element in a position to bias the shaving head against any of the
3 pivoting, cushioning, or rolling movements of the shaving head with respect to the handle.

1 40. (Unamended) A method of movably coupling a handle to a shaving head through a
2 connector assembly, the handle having a longitudinal axis, the shaving head having a bottom
3 surface with a camming surface and carrying at least one blade with at least one cutting edge
4 and defining a transverse axis parallel to the at least one cutting edge, the connector assembly
5 including at least one insertion element located on one of the handle or the shaving head and
6 at least one cutout located on the other of the handle or the shaving head and shaped to
7 receive the at least one insertion element, said method comprising:

8 inserting the at least one insertion element into the at least one cutout such that
9 said biasing element contacts said camming surface, wherein the cutout has dimensions
10 greater than the dimensions of the at least one insertion element to allow the shaving head to
11 exhibit a first movement toward and away from the handle into and out of a rest position, and
12 to allow the shaving head to exhibit a second movement forward and backward about a pivot
13 axis parallel to the transverse axis into and out of said the position.

1 41. (Unamended) A razor, comprising:

2 a handle having a longitudinal axis;

3 a shaving head carrying at least one blade with at least one cutting edge and
4 defining a transverse axis parallel to said at least one cutting edge;

5 a connector assembly movably coupling said handle to said shaving head; and

6 a biasing element spaced from said connector assembly and disposed between
7 said shaving head and said handle, said biasing element biasing said shaving head into a rest
8 position;

9 wherein:

10 said connector assembly permits said shaving head to exhibit a first movement
11 toward and away from said handle into and out of said rest position and a second movement
12 forward and backward about a pivot axis parallel to said transverse axis into and out of said
13 rest position; and

14 said connector assembly includes at least one insertion element and at least
15 one cutout shaped to receive said at least one insertion element, said cutout having
16 dimensions greater than the dimensions of said at least one insertion element to allow said
17 first movement and said second movement.